DLT/NLT YOKE

Rigging System for Mass Timber Panels

MTC Solutions yoke systems are engineered to streamline and accelerate on-site mass timber installation. Lab-tested, this specialized yoke uses inclined fasteners to securely lift NLT and DLT panels across a range of weights and sizes.

Manufactured in North America

For shorter lead times, reduced delay risk, and a more responsive supply chain — helping projects stay on schedule

High Capacity

Installed with our tested, ICC-ES-certified fasteners, a single anchor can lift up to 3,280 lbs. *[14.6 kN]*

DLT/ NLT Compatible

Designed for DLT or NLT panels with a flush top surface with inclined fasteners oriented to engage multiple laminations for lifting.

COMPLIANCE

OSHA

ASME

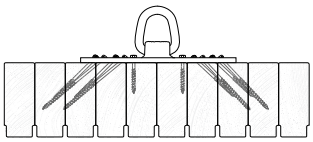
Infrastructure Health & Safety Association™

Rigging safety regulations covering the majority of the Canadian population*

*Refer to the General Notes to the Designer and Installer section in the Rigging Design Guide for more details. For further questions or guidance, contact our Technical Support Team.

DLT/NLT Flat Panel Rigging

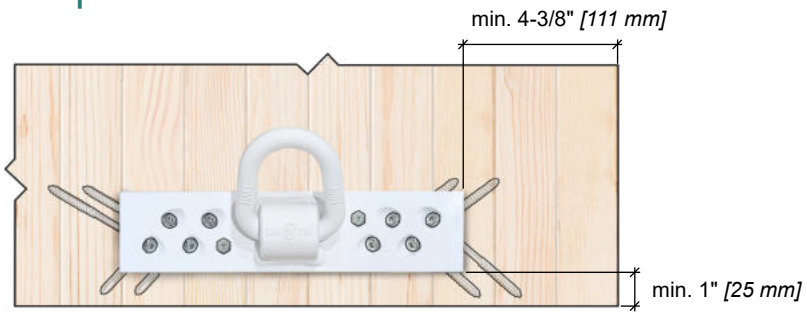
Table 1.1 - Reference Rigging Capacity, Z, of DLT/NLT Yoke for Rigging Flat DLT/NLT Panels

Rigging Device	Minimum Panel Thickness		Fastener Package				Specific Gravity [G]	Reference Rigging Capacity *[Z]*	
	in.	*mm*		in.	*mm*	Qty.		lb.	*[kN]*
DLT/NLT Yoke | 10 screws 	**3-1/2**	*89*	**Kombi**	**3/8 x 4-3/4**	*10 x 120*	2	≥0.42	2,840	*12.6*
				3/8 x 7-7/8	*10 x 200*	8	≥0.49	3,280	*14.6*

Notes:

1. All rigging design must meet relevant requirements outlined in the General Notes to the Designer and Installer section from MTC Solutions Rigging Guide v2.0, dated June 30, 2024 (herein referred to as "MTC Rigging Guide").
2. Listed reference rigging capacities, Z, comply with the safety and regulatory requirements for hoisting and rigging products, as described in the General Notes to the Designer and Installer section of the MTC Rigging Guide.
3. Listed reference rigging capacities, Z, must be adjusted with the appropriate modification factors, as outlined in the Recommended Design Procedure section of the MTC Rigging Guide.
4. Listed reference rigging capacities, Z, are based on testing using a typical sling angle, β, of 60°. Smaller sling angles require further capacity reductions as outlined in the Recommended Design Procedure section of the MTC Rigging Guide.
5. Listed reference rigging capacities, Z, are valid only with listed ASSY screws.
6. ASSY screws are designed for single use only. New screws must be used for each lift.
7. The anchor plate must be installed so that the long side of the plate is oriented perpendicular to the direction of laminations.
8. Listed reference rigging capacities, Z, apply to panels with a flush top surface. Staggered or profiled panels may be used provided the minimum panel thickness requirements are satisfied by the shortest laminations.
9. A maximum of 1 in. *[25 mm]* thick plywood or OSB sheathing may be present on the top surface without reduction to the listed reference rigging capacities.

End and Edge Distance Requirements



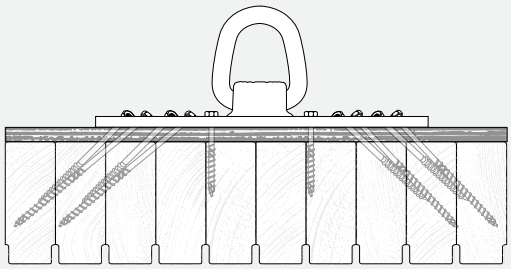
Panel Top View

Step-by-Step Installation Guidelines

The following installation guidelines are specific to the DLT / NLT Yoke system. General rigging and fastener installation requirements, safety precautions, and best practices shall comply with the MTC Solutions Rigging Design Guide.

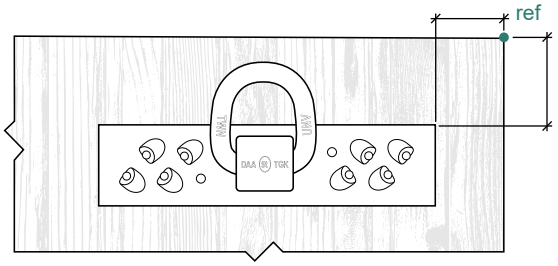
1.1 Layout - Thin Panel Considerations

For installation in 2x4 DLT or NLT panels, 1 in. *[25 mm]* thick wood structural panel, like OSB or plywood, must be used between anchor plate and panel to ensure proper fastener embedment.



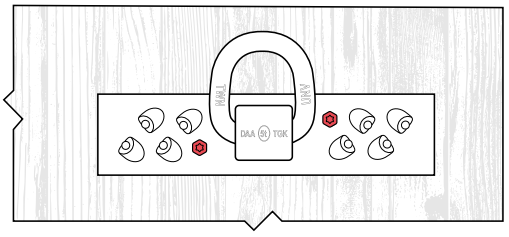
1.2 Layout - Reference Points

Place the anchor based on its intended final position, ensuring the long edge of the Yoke is perpendicular to the direction of the laminations. The Yoke reference point is on the DLT or NLT panel corner. Ensure end and edge distances are satisfied.



2.1 Structural Positioning Screw Installation

Structural positioning screws ensure accurate placement of the Yoke. Install one 3/8" x 4-3/4" *[10 x 120 mm]* Kombi structural positioning screw. Check to ensure that alignment is maintained, and then install the second structural positioning screw.



3.0 Screw Installation - Inclined Screws

3.1 First Row 3.2 Second Row

Install 3/8" x 7-7/8" *[10 x 200 mm]* Kombi screws into 45° inclined holes one row at a time. Start with 3.1 OR 3.2 (either row may be installed first). Begin with the innermost fasteners and work outwards to ensure the screws remain fully seated.